**Bio Unit 2 Outcome 3 Reproductive technologies applied Asexual Reproduction**

**Reproductive technologies**

**The problem**

The school requires more individual plants to complete a garden project.

Your task is to use our knowledge of reproductive technologies to propagate enough individual plants of the species required to solve the problem.

**The task**

After consulting with the school gardener

1. Determine which plants are required
2. Identify the best reproductive technology to use
3. Design and carry out an experiment that identifies the optimum conditions for the use of your chosen reproductive technology
4. Use the technology you have identified to propagate the species the gardener requires.

**How will you be assessed?**

The maximum grade for this task is an S. However, a percentage will be given as part of a CAT reported to you and your parents.

Successful completion of this will include you being able to

1. Produce examples of the species you propagated
2. Produce a photo journal of your progress (1 or 2 photos per week annotated showing how the plant has or has not grown, identifying parts of your experiment)
3. Know the technique of propagation used
4. Be able to orally present an account and explanation of why you used the chosen technique, what your experiment determined.

**What material should I collect to help me make my decisions?**

1. Make a information on the reproductive technologies used in asexual reproduction and horticultural propagation
2. Make a timeline
3. Write up an experiment that uses our usual format and ensure you have
   1. Written an hypothesis
   2. Identified the independent variable, the dependent variable and the variables you need to control
   3. Errors
4. Stick to the timeline

**When is this outcome due?**

1. Week 8 term 3
2. At this time hand in the photo journal see point 2 ‘How you will be assessed’
3. Be prepared for an oral quiz see point 3 and 4 ‘How you will be assessed’

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